

WHAT IS CLAIMED IS:

1. A method of manufacturing a holder-mounted optical element, comprising steps of:

5 disposing a cylindrical holder material having a thin deformed portion in a press forming die, providing an optical element material inside the holder material, and heating the holder material and the optical element material to their respective softening temperatures;

10 forming a cylindrical holder from the holder material and an optical element from the optical element material by press forming the holder material and the optical element material that have been heated to their respective softening temperatures; and

15 integrating the optical element inside the holder and deforming the deformed portion of the holder towards the outside thereof by a pressing force applied by the optical element.

20 2. The method of manufacturing a holder-mounted optical element according to Claim 1,

wherein reference surfaces for installation of the holder-mounted optical element in an optical axis direction and a radial direction are formed as a holder outer shape by press formation of the holder material.

25 3. The method of manufacturing a holder-mounted optical element according to Claim 1,

wherein a surplus is previously added to a volume required for formation of the optical element in the optical element material, thereby deforming the deformed portion.

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4. The method of manufacturing a holder-mounted optical element according to Claim 1,

wherein a side of the holder material is made thin and serves as the deformed portion, and the inside of the
10 deformed portion is pressed by the optical element.

5. The method of manufacturing a holder-mounted optical element according to Claim 1,

wherein a thin collar portion is formed on an inner
15 circumferential side of the holder and serves as the deformed portion, and a portion near the inside tip portion of the deformed portion is pressed by the optical element.